

=> b reg
 FILE 'REGISTRY' ENTERED AT 17:25:19 ON 20 NOV 2008
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STRUCTURE FILE UPDATES: 19 NOV 2008 HIGHEST RN 1073427-79-8
 DICTIONARY FILE UPDATES: 19 NOV 2008 HIGHEST RN 1073427-79-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

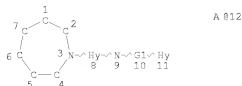
TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndec/properties.html>

=> d que sta 110
 L6 STR



REP G1=(0-4) 12
 NODE ATTRIBUTES:
 NSPEC IS RC AT 12
 DEFAULT MLEVEL IS ATOM
 DEFAULT ELEVEL IS LIMITED
 ECOUNT IS E4 C E2 N AT 8
 ECOUNT IS M1 N AT 11

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE
 L8 4374 SEA FILE=REGISTRY ABB=ON PLU=ON NC6/ES AND NCNC3/ES
 L10 1586 SEA FILE=REGISTRY SUB=L8 SSS FUL L6

100.0% PROCESSED 4180 ITERATIONS 1586 ANSWERS
 SEARCH TIME: 00.00.01

=> b hcap
 FILE 'HCAPIUS' ENTERED AT 17:25:28 ON 20 NOV 2008
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FILE COVERS 1907 - 20 Nov 2008 VOL 149 ISS 21
FILE LAST UPDATED: 19 Nov 2008 (20081119/ED)

HCplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

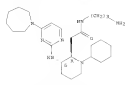
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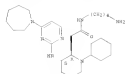
114 ANSWER 1 OF 8 KOMPASS COPYRIGHT 2008 ACS on STM (Continued)

Relative stereochemistry:



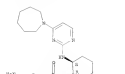
9B 9B022-41-8 KOMPASS
CN 2-((2S,3R)-3-((4S)-4-oxo-4,5,8,9-tetrahydro-1H-benzopyrrolo[1,2-a]pyridin-3-yl)-2-pyridinylamino)-2H-pyrido[2,3-b]pyrazine-6-carboxamide, (2S,3R)-rel- (CA INDEX NAME)

Relative stereochemistry:



9C 9B022-43-0 KOMPASS
CN 2-((2S,3R)-3-((4S)-4-oxo-4,5,8,9-tetrahydro-1H-benzopyrrolo[1,2-a]pyridin-3-yl)-2-pyridinylamino)-2H-pyrido[2,3-b]pyrazine-6-carboxamide, (2S,3R)-rel- (CA INDEX NAME)

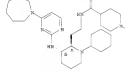
Relative stereochemistry:



9D 9B022-45-0 KOMPASS
CN 2-((2S,3R)-3-((4S)-4-oxo-4,5,8,9-tetrahydro-1H-benzopyrrolo[1,2-a]pyridin-3-yl)-2-pyridinylamino)-2H-pyrido[2,3-b]pyrazine-6-carboxamide, (2S,3R)-rel- (CA INDEX NAME)

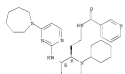
114 ANSWER 1 OF 8 KOMPASS COPYRIGHT 2008 ACS on STM (Continued)

Relative stereochemistry:



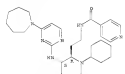
9E 9B022-46-0 KOMPASS
CN 2-((2S,3R)-3-((4S)-4-oxo-4,5,8,9-tetrahydro-1H-benzopyrrolo[1,2-a]pyridin-3-yl)-2-pyridinylamino)-2H-pyrido[2,3-b]pyrazine-6-carboxamide, (2S,3R)-rel- (CA INDEX NAME)

Relative stereochemistry:



9F 9B022-47-0 KOMPASS
CN 2-((2S,3R)-3-((4S)-4-oxo-4,5,8,9-tetrahydro-1H-benzopyrrolo[1,2-a]pyridin-3-yl)-2-pyridinylamino)-2H-pyrido[2,3-b]pyrazine-6-carboxamide, (2S,3R)-rel- (CA INDEX NAME)

Relative stereochemistry:

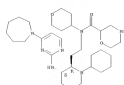


9G 9B022-48-0 KOMPASS
CN 2-((2S,3R)-3-((4S)-4-oxo-4,5,8,9-tetrahydro-1H-benzopyrrolo[1,2-a]pyridin-3-yl)-2-pyridinylamino)-2H-pyrido[2,3-b]pyrazine-6-carboxamide, (2S,3R)-rel- (CA INDEX NAME)

Relative stereochemistry:

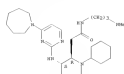
114 ANSWER 1 OF 8 KOMPASS COPYRIGHT 2008 ACS on STM (Continued)

Relative stereochemistry:



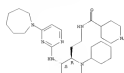
9H 9B022-49-4 KOMPASS
CN 2-((2S,3R)-3-((4S)-4-oxo-4,5,8,9-tetrahydro-1H-benzopyrrolo[1,2-a]pyridin-3-yl)-2-pyridinylamino)-2H-pyrido[2,3-b]pyrazine-6-carboxamide, (2S,3R)-rel- (CA INDEX NAME)

Relative stereochemistry:



9I 9B022-50-3 KOMPASS
CN 2-((2S,3R)-3-((4S)-4-oxo-4,5,8,9-tetrahydro-1H-benzopyrrolo[1,2-a]pyridin-3-yl)-2-pyridinylamino)-2H-pyrido[2,3-b]pyrazine-6-carboxamide, (2S,3R)-rel- (CA INDEX NAME)

Relative stereochemistry:



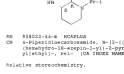
9J 9B022-51-1 KOMPASS
CN 2-((2S,3R)-3-((4S)-4-oxo-4,5,8,9-tetrahydro-1H-benzopyrrolo[1,2-a]pyridin-3-yl)-2-pyridinylamino)-2H-pyrido[2,3-b]pyrazine-6-carboxamide, (2S,3R)-rel- (CA INDEX NAME)

Relative stereochemistry:



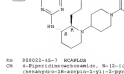
114 ANSWER 1 OF 8 KOMPASS COPYRIGHT 2008 ACS on STM (Continued)

Relative stereochemistry:



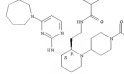
9L 9B022-52-6 KOMPASS
CN 2-((2S,3R)-3-((4S)-4-oxo-4,5,8,9-tetrahydro-1H-benzopyrrolo[1,2-a]pyridin-3-yl)-2-pyridinylamino)-2H-pyrido[2,3-b]pyrazine-6-carboxamide, (2S,3R)-rel- (CA INDEX NAME)

Relative stereochemistry:



9M 9B022-53-7 KOMPASS
CN 2-((2S,3R)-3-((4S)-4-oxo-4,5,8,9-tetrahydro-1H-benzopyrrolo[1,2-a]pyridin-3-yl)-2-pyridinylamino)-2H-pyrido[2,3-b]pyrazine-6-carboxamide, (2S,3R)-rel- (CA INDEX NAME)

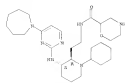
Relative stereochemistry:



9N 9B022-54-8 KOMPASS
CN 2-((2S,3R)-3-((4S)-4-oxo-4,5,8,9-tetrahydro-1H-benzopyrrolo[1,2-a]pyridin-3-yl)-2-pyridinylamino)-2H-pyrido[2,3-b]pyrazine-6-carboxamide, (2S,3R)-rel- (CA INDEX NAME)

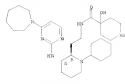
Relative stereochemistry:

114 ANSWER 1 OF 8 NOCAPUS COPYRIGHT 2008 ACS on STM (Continued)



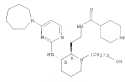
NO 91023-15-7 NOCAPUS
CN 2-Pyrrolidinone, N-((1R,3R)-3-(cyclohexyl)-2-(4-(benzohydro-1H-oxepin-1-yl)-2-pyrrolidinyl)amino)-5-piperidinylethyl)-4-hydroxy-, rel- (CA INDEX NAME)

Relative stereochemistry



NO 91023-14-0 NOCAPUS
CN 2-Pyrrolidinone, N-((1R,3R)-3-(4-(benzohydro-1H-oxepin-1-yl)-2-pyrrolidinyl)amino)-5-(3-hydroxypropyl)-2-piperidinylethyl)-, rel- (CA INDEX NAME)

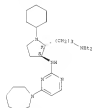
Relative stereochemistry



NO 91023-12-9 NOCAPUS
CN 2-Pyrrolidinone, N-((1R,3R)-3-(cyclohexyl)-2-(3-(diethylamino)propyl)-3-pyrrolidinyl)-4-(benzohydro-1H-oxepin-1-yl)-, rel- (CA INDEX NAME)

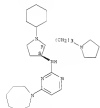
Relative stereochemistry

114 ANSWER 1 OF 8 NOCAPUS COPYRIGHT 2008 ACS on STM (Continued)



NO 91023-13-0 NOCAPUS
CN 2-Pyrrolidinone, N-((1R,3R)-3-(cyclohexyl)-2-(3-(1-piperidinyl)propyl)-3-pyrrolidinyl)-4-(benzohydro-1H-oxepin-1-yl)-, rel- (CA INDEX NAME)

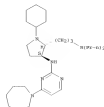
Relative stereochemistry



NO 91023-11-3 NOCAPUS
CN 2-Pyrrolidinone, N-((1R,3R)-3-(cyclohexyl)-2-(3-(1-piperidinyl)propyl)-3-pyrrolidinyl)-4-(benzohydro-1H-oxepin-1-yl)-, rel- (CA INDEX NAME)

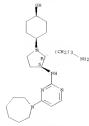
Relative stereochemistry

114 ANSWER 1 OF 8 NOCAPUS COPYRIGHT 2008 ACS on STM (Continued)



NO 91023-11-0 NOCAPUS
CN Cyclohexanone, 4-((1R,3R)-2-(3-oxocyclopropyl)-5-(4-(benzohydro-1H-oxepin-1-yl)-2-pyrrolidinyl)amino)-2-pyrrolidinyl-, rel- (CA INDEX NAME)

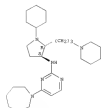
Relative stereochemistry



NO 91023-10-3 NOCAPUS
CN 2-Pyrrolidinone, N-((1R,3R)-3-(cyclohexyl)-2-(3-(diethylamino)propyl)-3-pyrrolidinyl)-4-(benzohydro-1H-oxepin-1-yl)-, rel- (CA INDEX NAME)

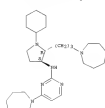
Relative stereochemistry

114 ANSWER 1 OF 8 NOCAPUS COPYRIGHT 2008 ACS on STM (Continued)



NO 91023-15-0 NOCAPUS
CN 2-Pyrrolidinone, N-((1R,3R)-3-(cyclohexyl)-2-(3-(benzohydro-1H-oxepin-1-yl)propyl)-3-pyrrolidinyl)-4-(benzohydro-1H-oxepin-1-yl)-, rel- (CA INDEX NAME)

Relative stereochemistry

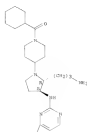


NO 91023-14-8 NOCAPUS
CN Methacrole, ((1R,3R)-2-(3-oxocyclopropyl)-2-((4-(benzohydro-1H-oxepin-1-yl)-2-pyrrolidinyl)amino)-3-pyrrolidinyl)-2-piperidinylcyclohexyl-, rel- (CA INDEX NAME)

Relative stereochemistry

114 ANSWER 1 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)

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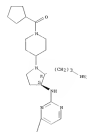


RU 918033-17-6 NONPLUS
 CN Benham, Jr. [(1P,3R)-3-((3-aminopropyl)-3-((4-(benzhydro-1H-azepin-1-yl)-2-pyridinyl)amino)-2-pyrrolidinyl)pyridin-4-yl), rel- (CA INDEX NAME)]

Relative stereochemistry

114 ANSWER 1 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)

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PAGE 2-A

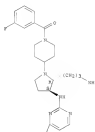


RU 918033-18-7 NONPLUS
 CN Benham, Jr. [(1P,3R)-3-((3-aminopropyl)-3-((4-(benzhydro-1H-azepin-1-yl)-2-pyridinyl)amino)-2-pyrrolidinyl)-3-piperidinyl(3-diazenyl)-, rel- (CA INDEX NAME)]

Relative stereochemistry.

114 ANSWER 1 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)

PAGE 1-A

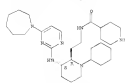


PAGE 2-A



RU 918033-21-8 NONPLUS
 CN 2-Piperidinethioneamide, N-[(2-[(1P,3R)-3-cyclohexyl-3-((4-(benzhydro-1H-azepin-1-yl)-2-pyrrolidinyl)amino)-2-piperidinyl)ethyl], rel- (CA INDEX NAME)]

Relative stereochemistry

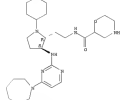


RU 918033-22-3 NONPLUS
 CN 2-Morpholinethioneamide, N-[(2-[(1P,3R)-3-cyclohexyl-3-((4-(benzhydro-1H-azepin-1-yl)-2-pyrrolidinyl)amino)-2-piperidinyl)ethyl], rel- (CA INDEX NAME)]

Relative stereochemistry

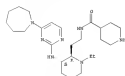
114 ANSWER 1 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)

PAGE 1-A



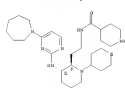
RU 918033-23-4 NONPLUS
 CN 4-Piperidinethioneamide, N-[(2-[(1P,3R)-3-ethyl-3-((4-(benzhydro-1H-azepin-1-yl)-2-pyrrolidinyl)amino)-2-piperidinyl)ethyl], rel- (CA INDEX NAME)]

Relative stereochemistry.



RU 918033-24-8 NONPLUS
 CN 4-Piperidinethioneamide, N-[(2-[(1P,3R)-3-((4-(benzhydro-1H-azepin-1-yl)-2-pyrrolidinyl)amino)-2-oxo-2-ethylthio)-2-piperidinyl)ethyl], rel- (CA INDEX NAME)]

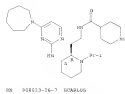
Relative stereochemistry.



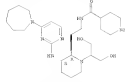
RU 918033-25-6 NONPLUS
 CN 4-Piperidinethioneamide, N-[(2-[(1P,3R)-3-((4-(benzhydro-1H-azepin-1-yl)-2-pyrrolidinyl)amino)-1-(3-methylthio)-2-piperidinyl)ethyl], rel- (CA INDEX NAME)]

Relative stereochemistry.

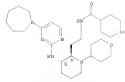
114 ANNEK 1 OF 8 KAPALUS COPYRIGHT 2018 ACS on STM (Continued)



Relative stereochemistry

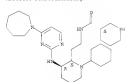


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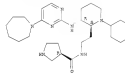


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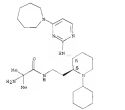
114 ANNEK 1 OF 8 KAPALUS COPYRIGHT 2018 ACS on STM (Continued)



Absolute stereochemistry

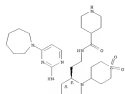


Relative stereochemistry

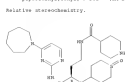


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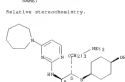
114 ANNEK 1 OF 8 KAPALUS COPYRIGHT 2018 ACS on STM (Continued)



Relative stereochemistry

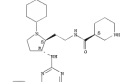


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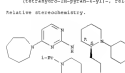


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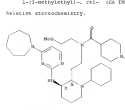
114 ANNEK 1 OF 8 KAPALUS COPYRIGHT 2018 ACS on STM (Continued)



Relative stereochemistry



Relative stereochemistry



Relative stereochemistry

114 ASSOCIATES OF A. MICHAELIS, COPYRIGHT 2014 ACS on STM (CONTINUED)

RU 42601-16-59
 RU- BAC (Pharmacological activity); BCT (Reagent), GBN (Synthetic preparation); DTS (Therapeutic use), NBL (Biological study); PPSB (Preparation); RAC (Reagent or reagent); USES (Uses)
 (prepn of 1-methoxyphenyl compounds as GPCR antagonists for treatment of AIDS, infectious rheumatism, etc.)

RU 42601-17-6 HEPALF
 2-Pyrrolidinone, N-(2R,3S)-2-(aminomethyl)-1-cyclohexyl-3-pyrrolidinyl-4-(methoxycarbonyl)-N-methyl- (CAS 100000 0000)

Absolute stereochemistry



DOI: 10.1002/1522-2675(200109)23:9<1031::AID-ZL1031>3.0.CO;2-1

2-Pyrrolidinamine, N-[(2*R*,3*S*)-2-(1-aminocetyl)-3-cyclohexyl-3-pyrrolidinyl]-
4-(6-oxahydro-1*H*-azepin-1-yl)- (CA INDEX NAME)

Absolute stereochemistry

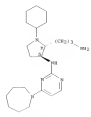


924 924001-26-9 HCNPLGVS

2-Pyrrolidinamine, N-(1-(2*N*, 3*E*)-2-(3-aminopropyl)-1-cyclohexyl)-3-
pyrrolidinyl)-4-(benzylthio)-1*H*-azepin-2-yl)- (CFA INDEX NAME)

Author's disclosures of potential conflicts of interest and author contributions

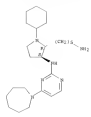
134 ASSANGE 2 OF 6 UNCLASSIFIED CONFIDENT 2016 ACS CO STN 100610040



DOI: 10.1002/2000GL011702

2-Pyrimidinamine, N-[1(2R,3S)-2-(3-aminopentyl)-3-cyclohexyl-3-*propanol*idanyl)-4-(benzohydro-1H-azepin-1-yl)]- (CA INDEX NAME)

Abaulista stercoribaculum



DOI: 10.1002/for

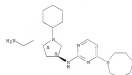
CM 2-Pyridinamine, N-[(3R,5R)-5-(aminomethyl)-1-cyclohexyl-3-pyrolidinyl]-4-(benzylhydro-1H-imidazol-1-yl)- (CA INDEX NAME)

Absolute stereochemistry

114 ANSWER 2 OF 8 INCAPABLE COPYRIGHT 2016 ACS on 5/7/16 (Continued)

01 2-Pyridindiamine, N-[(2R,5S)-5-(2-antioctyl)-2-cyclohexyl-2-pyridindyl]-
6-(2-hydroxy-1H-imidazol-1-yl)- (CA INDEX NAME)

Absolute stereochemistry



NS 924001-26-5 ECA2105

2-Pyrrolidinamine, N-[1(35,55)-5-(3-aminopropyl)-2-cyclohexyl-3-
terroldiolyl]-4-(2-cyclohexyl-10-azepin-2-yl)- (CA, 100% NMR)

● 2019 年 10 月 1 日起，增值税一般纳税人购进国内旅客运输服务取得增值税电子普通发票的，可凭发票上注明的税额，从进项税额中抵扣。

134 ASSHES 2 OF 8 BCAPS/05 COPYRIGHT 2000 ACS on 5TH (Continued)

1002073-46-40	1002073-42-00	1002073-44-60
1002073-45-00	1002073-43-00	1002073-45-00
1002073-46-48	1002073-46-00	1002073-70-00
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98128-36-39
RL: PNC (Pharmacological activity); SYN (Synthetic preparation); TNU
(Therapeutic use); BSL (Biological study); PREP (Preparation); USBS
(Uses)
[prep. of 2-methoxygrindinide compds. as CCR4 antagonists for treatment
of AIDS, *antiviral pharmacol. ed.*]

928021-21-6 HCAFLUOR

CS 2-Pyrimidinamine, N-[(1*R*,3*S*)-1-cyclohexyl-2-[(dimethylamino)methyl]-3-pyrrolidinyl]-4-(hexahydro-1*H*-azepin-2-yl)- (CA INDEX NAME)

Absolute stereochemistry.



984023-22-7 HCA21416

CS 2-Pyrimidinamine, N-[(2*R*,3*S*)-1-cyclohexyl-2-[2-(dimethylamino)ethyl]-3-pyrrolidinyl]-6-(hexahydro-1*H*-azepin-3-yl)- (CA INDEX NAME)

ABSOLUTE STEREOCHEMISTRY



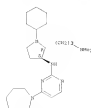
NS 984021-23-2 HCAPLUS

CN 2-Pyrimidinamine, N-[(2*N*, 3*S*)-1-cyclohexyl-2-[3-(dimethylamino)propyl]-3-oxoimidazolidin-4-yl]-6-(hexahydro-1*H*-azepin-1-yl)- (CS, INDO NANO)

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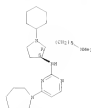
114 ANSWER 2 OF 8 R04PUS COPYRIGHT 2008 ACS on STM (Continued)

Absolute stereochemistry.



IN R04PUS-14-6 R04PUS
CN 2-Pyrrolidinone, N-((1R,3R)-1-cyclohexyl-2-((dimethylamino)propyl)-3-pyrrolidinyl)-4-(benzylthio)-1H-imidazole-5-yl- (CA INDEX NAME)

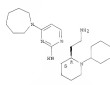
Absolute stereochemistry.



IN R04PUS-14-1 R04PUS
CN 2-Pyrrolidinone, N-((1R,3R)-1-cyclohexyl-2-((dimethylamino)propyl)-3-pyrrolidinyl)-4-(benzylthio)-1H-imidazole-5-yl- (CA INDEX NAME)

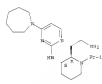
Absolute stereochemistry.

114 ANSWER 2 OF 8 R04PUS COPYRIGHT 2008 ACS on STM (Continued)



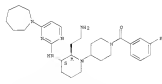
IN R04PUS-14-6 R04PUS
CN 2-Pyrrolidinone, N-((1R,3R)-1-cyclohexyl-2-((dimethylamino)propyl)-3-pyrrolidinyl)-4-(benzylthio)-1H-imidazole-5-yl- (CA INDEX NAME)

Relative stereochemistry.



IN R04PUS-14-6 R04PUS
CN Methanone, 4-((1R,3R)-1-cyclohexyl-2-((dimethylamino)propyl)-3-pyrrolidinylamino)-1,4'-bipiperidin-2'-yl-1-(3-fluorophenyl)-, (R)- (CA INDEX NAME)

Relative stereochemistry.

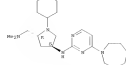


IN R04PUS-14-6 R04PUS
CN Methanone, 4-((1R,3R)-1-cyclohexyl-2-((dimethylamino)propyl)-3-pyrrolidinylamino)-1,4'-bipiperidin-2'-yl-1-(3-fluorophenyl)-, (R)- (CA INDEX NAME)

Relative stereochemistry.

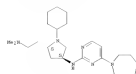
114 ANSWER 2 OF 8 R04PUS COPYRIGHT 2008 ACS on STM (Continued)

Absolute stereochemistry.



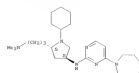
IN R04PUS-17-2 R04PUS
CN 2-Pyrrolidinone, N-((1R,3R)-1-cyclohexyl-2-((dimethylamino)propyl)-3-pyrrolidinyl)-4-(benzylthio)-1H-imidazole-5-yl- (CA INDEX NAME)

Absolute stereochemistry.



IN R04PUS-18-3 R04PUS
CN 2-Pyrrolidinone, N-((1R,3R)-1-cyclohexyl-2-((dimethylamino)propyl)-3-pyrrolidinyl)-4-(benzylthio)-1H-imidazole-5-yl- (CA INDEX NAME)

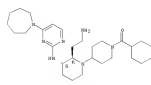
Absolute stereochemistry.



IN R04PUS-17-4 R04PUS
CN 2-Pyrrolidinone, N-((1R,3R)-1-cyclohexyl-2-((dimethylamino)propyl)-3-pyrrolidinyl)-4-(benzylthio)-1H-imidazole-5-yl- (CA INDEX NAME)

Relative stereochemistry.

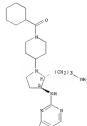
114 ANSWER 2 OF 8 R04PUS COPYRIGHT 2008 ACS on STM (Continued)



IN R04PUS-14-6 R04PUS
CN Methanone, 4-((1R,3R)-1-cyclohexyl-2-((dimethylamino)propyl)-3-pyrrolidinylamino)-1,4'-bipiperidin-2'-yl-1-(3-fluorophenyl)-, (R)- (CA INDEX NAME)

Absolute stereochemistry.

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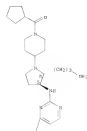


IN R04PUS-14-1 R04PUS
CN Methanone, 4-((1R,3R)-1-cyclohexyl-2-((dimethylamino)propyl)-3-pyrrolidinylamino)-1,4'-bipiperidin-2'-yl-1-(3-fluorophenyl)-, (R)- (CA INDEX NAME)

Absolute stereochemistry.

114 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STM (Continued)

PAGE 1-A

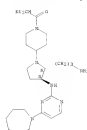


PAGE 2-A



NO 918211-43-0 HCAPLUS
CN 1-benzimidazole, 2-[[4-[(2R,3R)-2-(3-aminopropyl)-3-[[4-(benzylthio)-1H-imidazo-1-yl]-2-phenylthio]amino]-5-piperidinyl]-1-piperidinyl]-2-ethyl- (CA INDEX NAME)

Absolute stereochemistry.



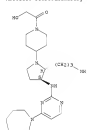
114 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STM (Continued)

PAGE 2-A



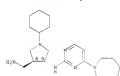
NO 918211-44-8 HCAPLUS
CN 2-benzimidazole, 2-[[4-[(2R,3R)-2-(3-aminopropyl)-3-[[4-(benzylthio)-1H-imidazo-1-yl]-2-phenylthio]amino]-5-piperidinyl]-1-piperidinyl]-2-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



NO 918211-45-6 HCAPLUS
CN 2-pyrrolidinethione, N-[[4-[(2R,3R)-2-(3-aminopropyl)-1-piperidinyl]-3-piperidinyl]-5-piperidinylamino]-2-phenylthio]amino]-1-piperidinyl]-2-ethyl- (CA INDEX NAME)

Absolute stereochemistry.



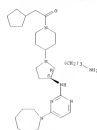
NO 918211-46-7 HCAPLUS
CN 2-pyrrolidinethione, N-[[4-[(2R,3R)-2-(3-aminopropyl)-1-piperidinyl]-3-piperidinyl]-5-piperidinylamino]-2-phenylthio]amino]-1-piperidinyl]-2-ethyl- (CA INDEX NAME)

Absolute stereochemistry.

114 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STM (Continued)

NO 918211-47-2 HCAPLUS
CN 2-benzimidazole, 2-[[4-[(2R,3R)-2-(3-aminopropyl)-3-[[4-(benzylthio)-1H-imidazo-1-yl]-2-phenylthio]amino]-5-piperidinyl]-1-piperidinyl]-2-ethylthio]-1-piperidinyl]-2-ethyl- (CA INDEX NAME)

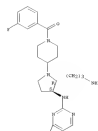
Absolute stereochemistry.



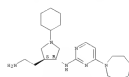
NO 918211-47-4 HCAPLUS
CN 2-benzimidazole, 2-[[4-[(2R,3R)-2-(3-aminopropyl)-3-[[4-(benzylthio)-1H-imidazo-1-yl]-2-phenylthio]amino]-5-piperidinyl]-1-piperidinyl]-2-ethylthio]-1-piperidinyl]-2-ethyl- (CA INDEX NAME)

Absolute stereochemistry.

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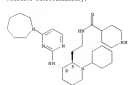


114 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STM (Continued)



NO 918211-48-1 HCAPLUS
CN 4-piperidinethione, N-[[4-[(2R,3R)-1-cyclohexyl-3-[[4-(benzylthio)-1H-imidazo-1-yl]-2-phenylthio]amino]-5-piperidinyl]-2-piperidinyl]-2-ethylthio]-1-piperidinyl]-2-ethyl- (CA INDEX NAME)

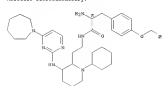
Relative stereochemistry.



● > HCl

NO 918211-49-2 HCAPLUS
CN 2-benzimidazole, N-[[4-[(2R,3R)-1-cyclohexyl-3-[[4-(benzylthio)-1H-imidazo-1-yl]-2-phenylthio]amino]-5-piperidinyl]-2-piperidinyl]-2-ethylthio]-1-piperidinyl]-2-ethyl- (CA INDEX NAME)

Absolute stereochemistry.

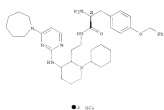


● > HCl

NO 918211-50-3 HCAPLUS
CN 2-benzimidazole, N-[[4-[(2R,3R)-1-cyclohexyl-3-[[4-(benzylthio)-1H-imidazo-1-yl]-2-phenylthio]amino]-5-piperidinyl]-2-piperidinyl]-2-ethylthio]-1-piperidinyl]-2-ethyl- (CA INDEX NAME)

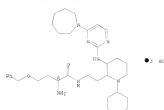
114 ANSWER 1 OF 8 KOMPUS COPYRIGHT 2008 ACS on STM (Continued)

Absolute stereochemistry.



918221-15-4 KOMPUS
CN Pyrimidine, 2-amino-6-[(2-{[2-cyclohexyl-3-[(4-oxaheptan-3-ylamino-1-yl)-2-piperidinyl]amino}-2-piperidinyl)ethyl]-4-(phenylmethoxy)-], hydrochloride (1:1), (2S)- (CN INDEX NAME)

Absolute stereochemistry.

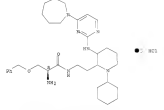


918221-14-9 KOMPUS
CN Pyrimidine, 2-amino-6-[(2-{[2-cyclohexyl-3-[(4-oxaheptan-3-ylamino-1-yl)-2-piperidinyl]amino}-2-piperidinyl)ethyl]-4-(phenylmethoxy)-], hydrochloride (1:1), (2S)- (CN INDEX NAME)

Absolute stereochemistry.

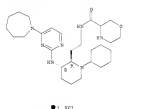
114 ANSWER 2 OF 8 KOMPUS COPYRIGHT 2008 ACS on STM (Continued)

Relative stereochemistry.



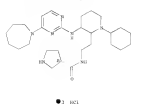
918221-17-8 KOMPUS
CN 3-morpholinylacetamide, N-[2-[(2R,3R)-1-cyclohexyl-2-[(4-oxaheptan-3-ylamino-1-yl)-2-piperidinyl]amino]-3-piperidinylethyl]-, hydrochloride (1:1), en- (CN INDEX NAME)

Relative stereochemistry.



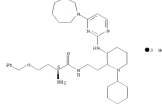
918221-18-9 KOMPUS
CN 3-piperidinylacetamide, N-[2-[(2R,3R)-1-cyclohexyl-3-[(4-oxaheptan-3-ylamino-1-yl)-2-piperidinyl]amino]-2-(4-chlorophenyl)-2-piperidinylethyl]-, hydrochloride (1:1), (2R)- (CN INDEX NAME)

Absolute stereochemistry.



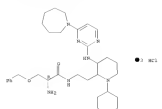
114 ANSWER 1 OF 8 KOMPUS COPYRIGHT 2008 ACS on STM (Continued)

Absolute stereochemistry.



918221-15-6 KOMPUS
CN Pyrimidine, 2-amino-6-[(2-{[2-cyclohexyl-3-[(4-oxaheptan-3-ylamino-1-yl)-2-piperidinyl]amino}-2-piperidinyl)ethyl]-3-(phenylmethoxy)-], hydrochloride (1:1), (2S)- (CN INDEX NAME)

Absolute stereochemistry.

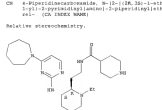


918221-14-7 KOMPUS
CN Pyrimidine, 2-amino-6-[(2-{[2-cyclohexyl-3-[(4-oxaheptan-3-ylamino-1-yl)-2-piperidinyl]amino}-2-piperidinyl)ethyl]-3-(phenylmethoxy)-], hydrochloride (1:1), (2S)- (CN INDEX NAME)

Absolute stereochemistry.

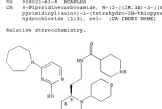
114 ANSWER 2 OF 8 KOMPUS COPYRIGHT 2008 ACS on STM (Continued)

Relative stereochemistry.



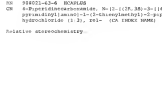
918221-16-3 KOMPUS
CN 4-piperidinylacetamide, N-[2-[(2R,3R)-1-ethyl-2-[(4-oxaheptan-3-ylamino-1-yl)-2-piperidinyl]amino]-3-piperidinylethyl]-, hydrochloride (1:1), en- (CN INDEX NAME)

Relative stereochemistry.

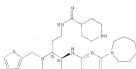


918221-16-4 KOMPUS
CN 4-piperidinylacetamide, N-[2-[(2R,3R)-1-[(4-oxaheptan-3-ylamino-1-yl)-2-piperidinyl]amino]-2-(4-chlorophenyl)-2-piperidinylethyl]-, hydrochloride (1:1), en- (CN INDEX NAME)

Relative stereochemistry.



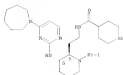
114 ANSWER 2 OF 8 RCPAPUS COPYRIGHT 2008 ACS on STM (Continued)



● 1 RCI

RM 918211-44-7 RCPAPUS
CN 4-Piperidinecarboxamide, N-[(2-[(2R,3R)-3-[(4-oxaheptan-1H-oxepin-3-yl)-2-pyridinyl]amino)-1-(2-aminophenyl)-3-piperidinyl]ethyl]-, hydrochloride (1:1), xel- (CA INDEX NAME)

Relative stereochemistry.

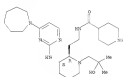


● 2 RCI

RM 918211-45-8 RCPAPUS
CN 4-Piperidinecarboxamide, N-[(2-[(2R,3R)-3-[(4-oxaheptan-1H-oxepin-3-yl)-2-pyridinyl]amino)-1-(2-aminophenyl)-3-piperidinyl]ethyl]-, hydrochloride (1:1), xel- (CA INDEX NAME)

Relative stereochemistry

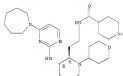
114 ANSWER 2 OF 8 RCPAPUS COPYRIGHT 2008 ACS on STM (Continued)



● 3 RCI

RM 918211-46-5 RCPAPUS
CN 4-Piperidinecarboxamide, N-[(2-[(2R,3R)-3-[(4-oxaheptan-1H-oxepin-3-yl)-2-pyridinyl]amino)-1-(2-aminophenyl)-3-piperidinyl]ethyl]-, hydrochloride (1:1), xel- (CA INDEX NAME)

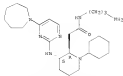
Relative stereochemistry.



● 4 RCI

RM 918211-47-6 RCPAPUS
CN 4-Piperidinecarboxamide, N-[(2-aminophenyl)-1-cyclohexyl-3-[(4-oxaheptan-1H-oxepin-3-yl)-2-pyridinyl]amino]-, (2R,3R)-xel- (CA INDEX NAME)

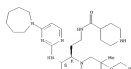
Relative stereochemistry



RM 918211-48-8 RCPAPUS
CN 4-Piperidinecarboxamide, N-[(2-aminophenyl)-1-cyclohexyl-3-[(4-oxaheptan-1H-oxepin-3-yl)-2-pyridinyl]amino]-, (2R,3R)-xel- (CA INDEX NAME)

Relative stereochemistry.

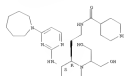
114 ANSWER 2 OF 8 RCPAPUS COPYRIGHT 2008 ACS on STM (Continued)



● 5 RCI

RM 918211-48-9 RCPAPUS
CN 4-Piperidinecarboxamide, N-[(2-[(2R,3R)-3-[(4-oxaheptan-1H-oxepin-3-yl)-2-pyridinyl]amino)-1-(2-aminophenyl)ethyl]-2-piperidinyl]ethyl]-, hydrochloride (1:1), xel- (CA INDEX NAME)

Relative stereochemistry.

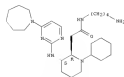


● 6 RCI

RM 918211-48-5 RCPAPUS
CN 4-Piperidinecarboxamide, N-[(2-[(2R,3R)-3-[(4-oxaheptan-1H-oxepin-3-yl)-2-pyridinyl]amino)-1-(2-aminophenyl)-3-piperidinyl]ethyl]-, hydrochloride (1:1), xel- (CA INDEX NAME)

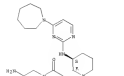
Relative stereochemistry.

114 ANSWER 2 OF 8 RCPAPUS COPYRIGHT 2008 ACS on STM (Continued)



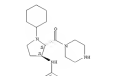
RM 918211-49-8 RCPAPUS
CN 2-Piperidinecarboxamide, N-(2-aminophenyl)-3-cyclohexyl-3-[(4-oxaheptan-1H-oxepin-3-yl)-2-pyridinyl]amino]-, (2R,3R)-xel- (CA INDEX NAME)

Relative stereochemistry.



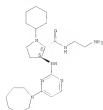
RM 918211-49-2 RCPAPUS
CN Methanone, [(2R,3R)-3-cyclohexyl-3-[(4-oxaheptan-1H-oxepin-3-yl)-2-pyridinyl]amino)-2-piperidinyl]-3-piperidinyl]-, (2R,3R)-xel- (CA INDEX NAME)

Absolute stereochemistry.



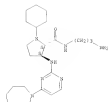
RM 918211-50-4 RCPAPUS
CN 2-Pyridylisocarbomamide, N-[(2-aminophenyl)-1-cyclohexyl-3-[(4-oxaheptan-1H-oxepin-3-yl)-2-pyridinyl]amino]-, (2R,3R)-xel- (CA INDEX NAME)

114 ASSOCIATION OF 8 HOPKINS COPYRIGHT 2018 ACS on ETH (CONTINUED)
Absolute stereochemistry



MS 901021-11-5 ECAD125
CM 2-Pyrrolidinecarboxamide, 3-[(3-aminopropyl)-1-cyclohexyl]-3-[(4-(hexahydro-1H-azepin-1-yl)-2-pyrimidinyl)amino]-, (2*a*,3*a*)- (CA INDEX NAME)

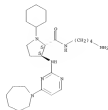
Absolute stereochemistry.



CS 2-Pyrrolidinocarbonamide, N-[4-aminobutyl]-1-cyclohexyl-3-[[4-(hexahydro-1H-azepin-1-yl)-2-pyrrolidinyl]amino]-, (2R,3R)- (CA INDEX NAME)

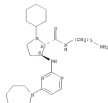
Absolute stereochemistry

136 ASSOCI. 2 OF 8 HCP/PLS COPYRIGHT 2019 ACS on STM (C061344G)



EN 918021-50-2 HCAPLEN
CS 2-Pyrrolidinocarboxamide, N-[5-aminopentyl]-1-cyclohexyl-3-[[4-(benzohydro-1H-imidin-1-yl)-2-pyrindinyl]amino]-, (2S,3S)- (CA INDEX NAME)

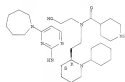
Absolute stereochemistry.



SM 91021-64-3 NCAMFAM
CM 6-Piperidinecarboxamide, N-[2-((3R,3S)-1-cyclohexyl-3-((4-(hexahydro-1H-azepin-1-yl)-2-pyridinidinyl)amino)-2-piperidinylethyl)-3-(2-hydroxyethyl)-, (S)-, (S)- (CA INDEX NAME)

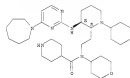
Relative stereochemistry.

314 ANSWER 2 OF 4 HQAGUS COPYRIGHT 2018 ACS on STM (Continued)



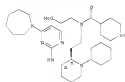
NM 028021-85-1 KCAPLW
 CS 4-Piperidinocarbonyl, N-[2-((2R,4S)-4-oxo-2-phenyl-3-pyrrolidinyl)amino]-, (Z)-

Relative stereochemistry.



IN 994021-96-5 ICANFLOS
CS 4-[2-piperidinylcarbamate, N-[2-[(27,35)-1-cyclohexyl-3-[(4-(benzohydro-1H-azepin-1-yl)-2-pyridinyl)amino]-2-piperidinyl)ethyl]-N-(2-methylpropyl)-, Tel- (CA INDEX NAME)

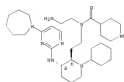
Relative stereochemistry.



08 991021-57-6 KANFLUG
09 4-Piperidinecarboxamide, N-(2-aminooethyl)-N-[2-[[2R,3R]-1-cyclohexyl-3-[[4-
[hexahydro-1H-spiro[3.5]nonyl-2-yl]-2-pyrimidinyl]amino]-2-piperidinyl]ethyl)-,
rel- (UN DUEX NAME)

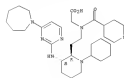
Relative stereochemistry—

134 APPENDIX 2 OF 8 BCP4US5 COPYRIGHT 2000 ACS on STM (Continued)



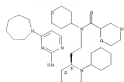
CS Glycine, N-[2-[(2R,3R)-1-cyclohexyl-3-[[4-(benzohydro-1H-azepin-1-yl)-2-pyrrolidinyl]amino]-2-piperidinyl]ethyl]-N-(4-piperidinylcarbonyl)-, zwitterion (see NAME)

Relative stereochemistry



2-Morpholinocarbonylurea, N-12-[(1*R*,3*R*)-1-cyclohexenyl]-3-[[4-(hexahydro-1*H*-
 xepin-2-yl)-2-gyridinyl]amino]-2-piperidinylethyl]-*o*-(tetrahydro-2*H*-
 xepin-6-yl)-, tri- (CA INVENT. NAME)

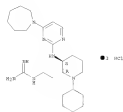
Relative stereochemistry.



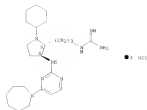
CS0 Guanine, 8-[2-((2R,3S)-1-cyclohexyl-3-((4-(benzohydro-1H-azepan-1-yl)-2-pyrimidinyl)amino)-2-piperidinylethyl)-, hydrochloride (3) 31, rel- (CA 150653 NAMS)

Relative stereochemistry

114 ANSWER 1 OF 8 HCAPLES COPYRIGHT 2008 ACS on STM (Continued)

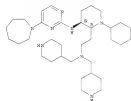


90 90022-11-5 HCAPLES
CN 6-benzothiazine, 5-[3-[(1R,3R)-3-cyclohexyl-3-[[4-(benzothio-1H-azepin-3-yl)-3-oxo-3,4-dihydro-2H-pyridin-2-yl]propyl]-hydrothiole-5,2], xyl- (CA INDEX NAME)
Relative stereochemistry.

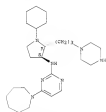


90 90022-12-7 HCAPLES
CN 4-2-piperidinethioamide, N-[2-[(1R,3R)-3-[[4-(benzothio-1H-azepin-3-yl)-3-oxo-3,4-dihydro-2H-pyridin-2-yl]propyl]-hydrothiole-5,2], xyl- (CA INDEX NAME)
Relative stereochemistry.

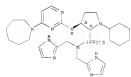
114 ANSWER 2 OF 8 HCAPLES COPYRIGHT 2008 ACS on STM (Continued)



90 90022-11-7 HCAPLES
CN 2-pyridinethioamide, N-[2-[(1R,3R)-3-cyclohexyl-3-[[3-(3-piperidinylpropyl)-3-oxo-3,4-dihydro-2H-pyridin-2-yl]propyl]-hydrothiole-5,2], xyl- (CA INDEX NAME)
Absolute stereochemistry.

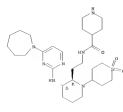


90 90022-12-8 HCAPLES
CN 2-pyridinethioamide, N-[2-[(1R,3R)-3-[[3-[[4-(benzothio-1H-azepin-3-yl)-3-oxo-3,4-dihydro-2H-pyridin-2-yl]propyl]-hydrothiole-5,2], xyl- (CA INDEX NAME)
Absolute stereochemistry.

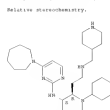


90 90022-12-9 HCAPLES
CN 2-pyridinethioamide, N-[2-[(1R,3R)-3-cyclohexyl-3-[[3-piperidinylpropyl]-3-oxo-3,4-dihydro-2H-pyridin-2-yl]propyl]-hydrothiole-5,2], xyl- (CA INDEX NAME)
Absolute stereochemistry.

114 ANSWER 3 OF 8 HCAPLES COPYRIGHT 2008 ACS on STM (Continued)

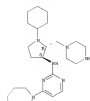


90 90022-16-9 HCAPLES
CN 2-pyridinethioamide, N-[2-[(1R,3R)-3-cyclohexyl-3-[[3-[[4-(benzothio-1H-azepin-3-yl)-3-oxo-3,4-dihydro-2H-pyridin-2-yl]propyl]-hydrothiole-5,2], xyl- (CA INDEX NAME)
Relative stereochemistry.

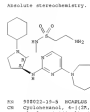


90 90022-17-3 HCAPLES
CN 2-pyridinethioamide, N-[2-[(1R,3R)-3-[[3-[[4-(benzothio-1H-azepin-3-yl)-3-oxo-3,4-dihydro-2H-pyridin-2-yl]propyl]-hydrothiole-5,2], xyl- (CA INDEX NAME)
Relative stereochemistry.

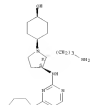
114 ANSWER 4 OF 8 HCAPLES COPYRIGHT 2008 ACS on STM (Continued)



90 90022-18-1 HCAPLES
CN Ethanolamine, 2-amino-N-[[2-[(1R,3R)-3-cyclohexyl-3-[[4-(benzothio-1H-azepin-3-yl)-3-oxo-3,4-dihydro-2H-pyridin-2-yl]propyl]-hydrothiole-5,2], xyl- (CA INDEX NAME)
Absolute stereochemistry.



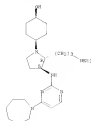
90 90022-18-8 HCAPLES
CN Cyclohexanol, 6-[(1R,3R)-3-[[3-methoxypropyl]-3-[[4-(benzothio-1H-azepin-3-yl)-3-oxo-3,4-dihydro-2H-pyridin-2-yl]propyl]-hydrothiole-5,2], xyl- (CA INDEX NAME)
Absolute stereochemistry.



90 90022-18-9 HCAPLES
CN Cyclohexanol, 6-[(1R,3R)-3-[[3-diethylaminoethyl]-3-[[4-(benzothio-1H-azepin-3-yl)-3-oxo-3,4-dihydro-2H-pyridin-2-yl]propyl]-hydrothiole-5,2], xyl- (CA INDEX NAME)
Absolute stereochemistry.

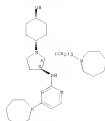
114 ANSWER 2 OF 8 KOMPAS COPYRIGHT 2008 ACS on STM (Continued)
 aspen-3-yl-1-(2-pyridindyl)amino-1-pyrrolidyl)-, cis- (CA INDEX NAME)

Absolute stereochemistry.



RN 98022-11-9 KOMPAS
 CN 2-Pyridindiamine, N-[(1S,3S)-2-[(2-oxo-1-phenylethyl)-1-cyclohexyl-3-pyrrolidyl]-4-benzophen-10-oxo-3-yl]-1-pyrrolidyl)-, cis- (CA INDEX NAME)

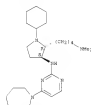
Absolute stereochemistry.



RN 98022-10-3 KOMPAS
 CN 2-Pyridindiamine, N-[(1S,3S)-2-[(2-oxo-1-phenylethyl)-1-cyclohexyl-3-pyrrolidyl]-4-benzophen-10-oxo-3-yl]-1-pyrrolidyl)-, cis- (CA INDEX NAME)

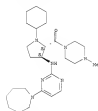
Absolute stereochemistry.

114 ANSWER 2 OF 8 KOMPAS COPYRIGHT 2008 ACS on STM (Continued)



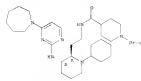
RN 98022-28-7 KOMPAS
 CN Metaxalone, [(1S,3S)-4-cyclohexyl-2-[(4-benzophen-10-oxo-3-yl)-1-pyrrolidyl]amino-3-piperidyl]ethyl-1-ethyl-, cis- (CA INDEX NAME)

Absolute stereochemistry.



RN 98022-30-5 KOMPAS
 CN 4-Piperidino-2-oxo-1-phenylethylidene, N-[2-[(1S,3S)-1-cyclohexyl-2-[(4-benzophen-10-oxo-3-yl)-1-pyrrolidyl]amino-3-piperidyl]ethyl-1-ethyl]-, cis- (CA INDEX NAME)

Relative stereochemistry.



RN 98022-31-5 KOMPAS
 CN 2-Piperidino-2-oxo-1-phenylethylidene, N-[2-[(1S,3S)-1-cyclohexyl-2-[(4-benzophen-10-oxo-3-yl)-1-pyrrolidyl]amino-3-piperidyl]ethyl-1-ethyl]-, cis- (CA INDEX NAME)

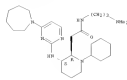
Relative stereochemistry.

114 ANSWER 2 OF 8 KOMPAS COPYRIGHT 2008 ACS on STM (Continued)



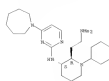
RN 98022-14-4 KOMPAS
 CN 2-Pyridindiamine, N-[(1S,3S)-1-cyclohexyl-3-[(4-benzophen-10-oxo-3-yl)-1-pyrrolidyl]amino]-1-pyrrolidyl)-, cis- (CA INDEX NAME)

Relative stereochemistry.



RN 98022-17-5 KOMPAS
 CN 2-Pyridindiamine, N-[(1S,3S)-1-cyclohexyl-3-[(2-dimethylamino)ethyl]-3-piperidyl]-4-benzophen-10-oxo-3-yl-, cis- (CA INDEX NAME)

Relative stereochemistry.



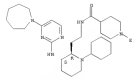
RN 98022-18-6 KOMPAS
 CN 2-Pyridindiamine, N-[(1S,3S)-1-cyclohexyl-3-[(4-dimethylamino)butyl]-3-piperidyl]-4-benzophen-10-oxo-3-yl-, cis- (CA INDEX NAME)

Absolute stereochemistry.

114 ANSWER 2 OF 8 KOMPAS COPYRIGHT 2008 ACS on STM (Continued)

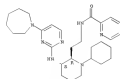
aspen-3-yl-1-(2-pyridindyl)amino-3-piperidyl)ethyl-1-ethyl-, cis- (CA INDEX NAME)

Relative stereochemistry.



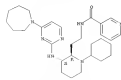
RN 98022-12-2 KOMPAS
 CN 2-Pyridindiamine, N-[2-[(1S,3S)-1-cyclohexyl-3-[(4-benzophen-10-oxo-3-yl)-1-pyrrolidyl]amino-3-piperidyl]ethyl-1-ethyl]-, cis- (CA INDEX NAME)

Relative stereochemistry.



RN 98022-13-3 KOMPAS
 CN 2-Pyridindiamine, N-[2-[(1S,3S)-1-cyclohexyl-3-[(4-benzophen-10-oxo-3-yl)-1-pyrrolidyl]amino-3-piperidyl]ethyl-1-ethyl]-, cis- (CA INDEX NAME)

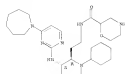
Relative stereochemistry.



RN 98022-14-4 KOMPAS
 CN 4-Piperidino-2-oxo-1-phenylethylidene, N-[2-[(1S,3S)-1-cyclohexyl-3-[(4-benzophen-10-oxo-3-yl)-1-pyrrolidyl]amino-3-piperidyl]ethyl-1-ethyl]-, cis- (CA INDEX NAME)

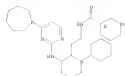
Relative stereochemistry.

114 ANSWER 1 OF 8 RACEMES COPYRIGHT 2008 ACS on STM (Continued)



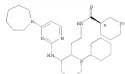
IN 918022-47-9 RACEMUS
CN 2-Piperidinylacetamide, N-[2-(2-cyclohexyl-3-[(4-oxo-3,4-dihydro-2H-pyridin-2-yl)-2-pyridinyl]amino-2-piperidinyl]ethyl)-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



IN 918022-48-0 RACEMUS
CN 2-Piperidinylacetamide, N-[2-(2-cyclohexyl-3-[(4-oxo-3,4-dihydro-2H-pyridin-2-yl)-2-pyridinyl]amino-2-piperidinyl]ethyl)-, (2R)- (CA INDEX NAME)

Absolute stereochemistry.

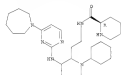


IN 918022-47-8 RACEMUS
CN 2-Piperidinylacetamide, N-[2-(2-cyclohexyl-3-[(4-oxo-3,4-dihydro-2H-pyridin-2-yl)-2-pyridinyl]amino-2-piperidinyl]ethyl)-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.

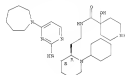
114 ANSWER 2 OF 8 RACEMES COPYRIGHT 2008 ACS on STM (Continued)

Absolute stereochemistry.



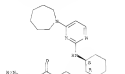
IN 918022-43-7 RACEMUS
CN 2-Piperidinylacetamide, N-[2-(2-cyclohexyl-3-[(4-oxo-3,4-dihydro-2H-pyridin-2-yl)-2-pyridinyl]amino-2-piperidinyl]ethyl)-, (2S)- (CA INDEX NAME)

Relative stereochemistry.



IN 918022-44-8 RACEMUS
CN 2-Piperidinylacetamide, N-[2-(2-cyclohexyl-3-[(4-oxo-3,4-dihydro-2H-pyridin-2-yl)-2-pyridinyl]amino-2-piperidinyl]ethyl)-, (2S)- (CA INDEX NAME)

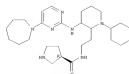
Relative stereochemistry.



IN 918022-45-9 RACEMUS
CN 2-Piperidinylacetamide, N-[2-(2-cyclohexyl-3-[(4-oxo-3,4-dihydro-2H-pyridin-2-yl)-2-pyridinyl]amino-2-piperidinyl]ethyl)-, (2S, 4S)- (CA INDEX NAME)

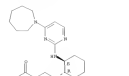
Absolute stereochemistry.

114 ANSWER 3 OF 8 RACEMES COPYRIGHT 2008 ACS on STM (Continued)



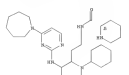
IN 918022-46-4 RACEMUS
CN 2-Piperidinylacetamide, N-[2-(2-cyclohexyl-3-[(4-oxo-3,4-dihydro-2H-pyridin-2-yl)-2-pyridinyl]amino-2-piperidinyl]ethyl)-, (2S)- (CA INDEX NAME)

Relative stereochemistry.



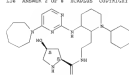
IN 918022-43-5 RACEMUS
CN 2-Piperidinylacetamide, N-[2-(2-cyclohexyl-3-[(4-oxo-3,4-dihydro-2H-pyridin-2-yl)-2-pyridinyl]amino-2-piperidinyl]ethyl)-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



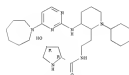
IN 918022-43-6 RACEMUS
CN 2-Piperidinylacetamide, N-[2-(2-cyclohexyl-3-[(4-oxo-3,4-dihydro-2H-pyridin-2-yl)-2-pyridinyl]amino-2-piperidinyl]ethyl)-, (2S)- (CA INDEX NAME)

114 ANSWER 4 OF 8 RACEMES COPYRIGHT 2008 ACS on STM (Continued)



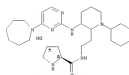
IN 918022-46-3 RACEMUS
CN 2-Piperidinylacetamide, N-[2-(2-cyclohexyl-3-[(4-oxo-3,4-dihydro-2H-pyridin-2-yl)-2-pyridinyl]amino-2-piperidinyl]ethyl)-, (2S, 4S)- (CA INDEX NAME)

Absolute stereochemistry.



IN 918022-47-3 RACEMUS
CN 2-Piperidinylacetamide, N-[2-(2-cyclohexyl-3-[(4-oxo-3,4-dihydro-2H-pyridin-2-yl)-2-pyridinyl]amino-2-piperidinyl]ethyl)-, (2S, 4S)- (CA INDEX NAME)

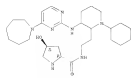
Absolute stereochemistry.



IN 918022-48-2 RACEMUS
CN 2-Piperidinylacetamide, N-[2-(2-cyclohexyl-3-[(4-oxo-3,4-dihydro-2H-pyridin-2-yl)-2-pyridinyl]amino-2-piperidinyl]ethyl)-, (2S, 4S)- (CA INDEX NAME)

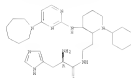
Absolute stereochemistry.

114 ARTICLES | BY J. HERRERA | COPYRIGHT 2019 ACS on STM | CONTINUED



CS 1E-2-methyl-5-propionamide, 8-amino-8-[2-(3-cyclohexyl-3-(4-(3-methyl-2-oxo-1,3-dioxol-5-yl)-2-pyrrolidinyl)amino)-2-piperidinyl]ethyl)-, (1*R*) - (CA 150039 SM)

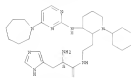
Absolute stereochemistry



IN 1N-2-imidazole-5-propanamide, *N*-amino-*N*-(2-(1-cyclohexyl)-3-(4-(hexahydro-1*H*-azepin-1-yl)-2-pyrimidinyl)amino)-2-piperidinylethyl)-, (1*S*)- (CA 150001 3AM1)

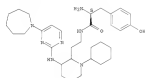
Absolute stereochemistry

Absolute stereochemistry



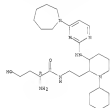
RD 92822-62-9 HCAPLON
 CS Cyclohexanecarbonamide, 1-amino-N-[2-(12R,3E)-3-cyclohexyl-3-[4-(benzophenyl-1H-imidazol-2-yl)-2-pyrimidinyl]amino]-2-piperidinyl]ethyle-,
 xal.- (C8 INDEX NAME)

114 ANSWER 2 OF 4 WORDS: COPYRIGHT 2016 AOL INC. (Continued)



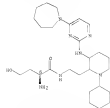
CS Butenamide, 2-amino-N-[1-(3-cyclohexyl-3-[[4-oxahydro-2H-azepin-2-yl]-2-pyrimidinyl]amino)-2-piperidinyl]ethyl]-4-hydroxy-, (3R)- (CA INDEX NAME)

Absolute stereochemistry



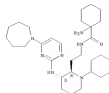
PN 01022-00-1 KCAPLOS
 CM Butenamide, 1-amino-N-[[2-[[3-cyclohexyl-3-[[4-(hexahydro-2H-azepin-1-yl)-2-pyrimidinyl]amino]-2-piperidinyl]ethyl]-4-hydroxy-, (2S)- (CA INDEX NAME)

Absolute stereochemistry

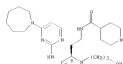


IN 924022-45-5 HAZFUG
 CH Polyaniline, 2-amino-3-[[3-[[[pyridin-2-yl]-3-[[4-(benzothien-2-yl)oxyphenyl]-2-pyridinyl]amino]-2-pyridinyl]ethoxy]-3-hydroxy-, (5R,3R)- (CA 119000

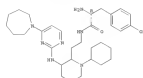
134 ASSANGE 2 OF 6 INCARCERATED COPYRIGHT 2019 ACS CO. STM 1006100400



C9 4-[2-piperidin-1-yl]carbamate, 3-[12-[(2R,3S)-3-[14-oxaheptylo-16-oxapin-1-yl]-2-pyrrolidinyl]amino]-1-(3-hydroxypropyl)-2-piperidinyl]ethyle], rel- (CA 10063 30000)



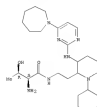
RX 984022-65-1 HCARLOS
 CN Benzenepropanamide, 8-amino-N-[(2-{1-(cyclohexyl)-3-[(4-{hexahydro-1H-azepin-1-yl}-2-pyrimidinyl)amino]-2-piperidinyl)ethyl}-4-hydroxy-, (2R), (2R)- (CA [NSKE NAME])



KE 518022-66-2 NCARLAP
CM Benzenepropanamide, O-amino-N-[2-[1-cyclohexyl-3-[(4-(hexahydro-1H-azepin-1-yl)-2-pyrimidinyl)amino]-2-piperidinyl]ethyl]-4-hydroxy-,

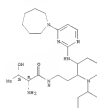
$$[105] = [4.0 \pm 0.054] \text{ for}$$

134. ANSWER 2 OF 8 WORDS: COPYRIGHT 2008 ACS, INC. (Continued)



RU 918022-70-8 HCARLANS
CH Butanamide, 2-amino-N-[2-[(3-cyclohexyl-3-[[4-(6-oxo-2H-azepin-1-yl)-2-pyrimidinylamino]-2-piperidinyl)ethyl]-3-hydroxy-, (2R,3R)-] (CA INCHI
 1000000)

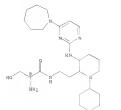
[3496]



CS pyranamide, 2-amino-6-[2-(1-cyclohexyl-3-[(6-(benzoyl-2H-azepin-1-yl)-2-pyridinyl)amino]-2-piperidinyl)ethyl]-3-hydroxy-, (2R)- (CA 1038) (RHE)

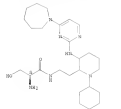
ABSOLUTE SIZE ESTIMATES

114 ANSWER 2 OF 8 KOMPUS COPYRIGHT 2008 ACS on STM (Continued)



RN 94022-10-0 KOMPUS
CN Pregabalin, 2-amino-5-[2-(1-cyclohexyl-3-[[4-(benzylamino)-3-oxopropyl-1-ylidene-2-pyrrolidinyl]amino]-5-pyridinyl)ethyl]-3-hydroxy-, (1S)- (CA INDEX NAME)

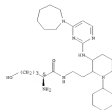
Absolute stereochemistry:



RN 94022-10-1 KOMPUS
CN Pregabalin, 2-amino-5-[2-(1-cyclohexyl-3-[[4-(benzylamino)-3-oxopropyl-1-ylidene-2-pyrrolidinyl]amino]-5-pyridinyl)ethyl]-3-hydroxy-, (1S)- (CA INDEX NAME)

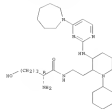
Absolute stereochemistry:

114 ANSWER 2 OF 8 KOMPUS COPYRIGHT 2008 ACS on STM (Continued)



RN 94022-14-2 KOMPUS
CN Pregabalin, 2-amino-5-[2-(1-cyclohexyl-3-[[4-(benzylamino)-3-oxopropyl-1-ylidene-2-pyrrolidinyl]amino]-5-pyridinyl)ethyl]-3-hydroxy-, (1S)- (CA INDEX NAME)

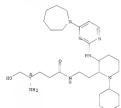
Absolute stereochemistry:



RN 94022-16-3 KOMPUS
CN Pregabalin, 2-amino-5-[2-(1-cyclohexyl-3-[[4-(benzylamino)-3-oxopropyl-1-ylidene-2-pyrrolidinyl]amino]-5-pyridinyl)ethyl]-3-hydroxy-, (1S)- (CA INDEX NAME)

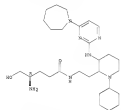
Absolute stereochemistry:

114 ANSWER 2 OF 8 KOMPUS COPYRIGHT 2008 ACS on STM (Continued)



RN 94022-16-4 KOMPUS
CN Pregabalin, 2-amino-5-[2-(1-cyclohexyl-3-[[4-(benzylamino)-3-oxopropyl-1-ylidene-2-pyrrolidinyl]amino]-5-pyridinyl)ethyl]-3-hydroxy-, (1S)- (CA INDEX NAME)

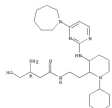
Absolute stereochemistry:



RN 94022-17-5 KOMPUS
CN Pregabalin, 2-amino-5-[2-(1-cyclohexyl-3-[[4-(benzylamino)-3-oxopropyl-1-ylidene-2-pyrrolidinyl]amino]-5-pyridinyl)ethyl]-3-hydroxy-, (1S)- (CA INDEX NAME)

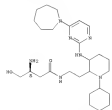
Absolute stereochemistry:

114 ANSWER 2 OF 8 KOMPUS COPYRIGHT 2008 ACS on STM (Continued)



RN 94022-18-6 KOMPUS
CN Pregabalin, 2-amino-5-[2-(1-cyclohexyl-3-[[4-(benzylamino)-3-oxopropyl-1-ylidene-2-pyrrolidinyl]amino]-5-pyridinyl)ethyl]-3-hydroxy-, (1S)- (CA INDEX NAME)

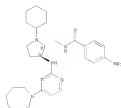
Absolute stereochemistry:



RN 94022-19-7 KOMPUS
CN Pregabalin, 2-amino-5-[2-(1-cyclohexyl-3-[[4-(benzylamino)-3-oxopropyl-1-ylidene-2-pyrrolidinyl]amino]-5-pyridinyl)ethyl]-3-hydroxy-, (1S)- (CA INDEX NAME)

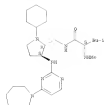
Absolute stereochemistry:

114 ANSWER 2 OF 8 NOVELUS COPYRIGHT 2008 ACS on STM (Continued)



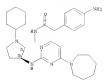
918022-82-0 NOVELUS
CN 8-benzothiazine-6-carboxamide-1,1-dioxide-3-[[4-(4-mercapto-1H-azepin-3-yl)-2-pyridindyl]amino]-2-pyridindyl[methyl]-4-methyl-5-methylamino-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



918022-83-0 NOVELUS
CN 8-benzothiazine-6-carboxamide-1,1-dioxide-3-[[4-(4-mercapto-1H-azepin-3-yl)-2-pyridindyl]amino]-2-pyridindyl[methyl]-4-methyl-5-methylamino-, (2S)- (CA INDEX NAME)

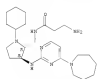
Absolute stereochemistry.



114 ANSWER 2 OF 8 NOVELUS COPYRIGHT 2008 ACS on STM (Continued)

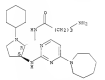
918022-85-0 NOVELUS
CN 8-benzothiazine-6-carboxamide-1,1-dioxide-3-[[4-(4-mercapto-1H-azepin-3-yl)-2-pyridindyl]amino]-2-pyridindyl[methyl]-4-methyl-5-methylamino-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



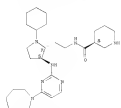
918022-86-0 NOVELUS
CN 8-benzothiazine-6-carboxamide-1,1-dioxide-3-[[4-(4-mercapto-1H-azepin-3-yl)-2-pyridindyl]amino]-2-pyridindyl[methyl]-4-methyl-5-methylamino-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



918022-87-0 NOVELUS
CN 8-benzothiazine-6-carboxamide-1,1-dioxide-3-[[4-(4-mercapto-1H-azepin-3-yl)-2-pyridindyl]amino]-2-pyridindyl[methyl]-4-methyl-5-methylamino-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.

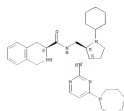


918022-88-0 NOVELUS
CN 8-benzothiazine-6-carboxamide-1,1-dioxide-3-[[4-(4-mercapto-1H-azepin-3-yl)-2-pyridindyl]amino]-2-pyridindyl[methyl]-4-methyl-5-methylamino-, (2S)- (CA INDEX NAME)

114 ANSWER 2 OF 8 NOVELUS COPYRIGHT 2008 ACS on STM (Continued)

918022-89-0 NOVELUS
CN 8-benzothiazine-6-carboxamide-1,1-dioxide-3-[[4-(4-mercapto-1H-azepin-3-yl)-2-pyridindyl]amino]-2-pyridindyl[methyl]-4-methyl-5-methylamino-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



918022-91-0 NOVELUS
CN 8-benzothiazine-6-carboxamide-1,1-dioxide-3-[[4-(4-mercapto-1H-azepin-3-yl)-2-pyridindyl]amino]-2-pyridindyl[methyl]-4-methyl-5-methylamino-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



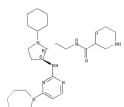
918022-93-0 NOVELUS
CN 8-benzothiazine-6-carboxamide-1,1-dioxide-3-[[4-(4-mercapto-1H-azepin-3-yl)-2-pyridindyl]amino]-2-pyridindyl[methyl]-4-methyl-5-methylamino-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



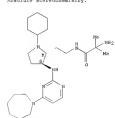
114 ANSWER 2 OF 8 NOVELUS COPYRIGHT 2008 ACS on STM (Continued)

Absolute stereochemistry.



918022-96-0 NOVELUS
CN 8-benzothiazine-6-carboxamide-1,1-dioxide-3-[[4-(4-mercapto-1H-azepin-3-yl)-2-pyridindyl]amino]-2-pyridindyl[methyl]-4-methyl-5-methylamino-, (2S)- (CA INDEX NAME)

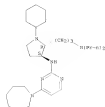
Absolute stereochemistry.



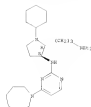
918022-98-0 NOVELUS
CN 8-benzothiazine-6-carboxamide-1,1-dioxide-3-[[4-(4-mercapto-1H-azepin-3-yl)-2-pyridindyl]amino]-2-pyridindyl[methyl]-4-methyl-5-methylamino-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.

114 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STM (Continued)

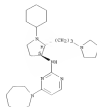


RI 91022-91-3 HCAPLUS
 CN 2-pyrrolidinone, N-((1R,3R)-1-cyclohexyl-3-(3-((tert-butyldimethylsilyl)-3-oxopropyl)-4-oxapent-1-en-1-yl))- (CA INDEX NAME)
 Absolute stereochemistry.

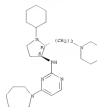


RI 91022-91-4 HCAPLUS
 CN 2-pyrrolidinone, N-((1R,3R)-1-cyclohexyl-3-(3-(1-pyrrolidinylpropyl)-3-pyrrolidinyl)-4-oxapent-1-en-1-yl))- (CA INDEX NAME)
 Absolute stereochemistry.

114 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STM (Continued)

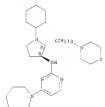


RI 91022-93-3 HCAPLUS
 CN 2-pyrrolidinone, N-((1R,3R)-1-cyclohexyl-3-(3-(1-piperidinylpropyl)-3-pyrrolidinyl)-4-oxapent-1-en-1-yl))- (CA INDEX NAME)
 Absolute stereochemistry.

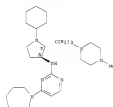


RI 91022-94-8 HCAPLUS
 CN 2-pyrrolidinone, N-((1R,3R)-1-cyclohexyl-3-(3-(4-morpholinylpropyl)-3-pyrrolidinyl)-4-oxapent-1-en-1-yl))- (CA INDEX NAME)
 Absolute stereochemistry.

114 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STM (Continued)

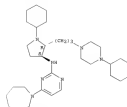


RI 91022-95-3 HCAPLUS
 CN 2-pyrrolidinone, N-((1R,3R)-1-cyclohexyl-3-(3-(4-methyl-1-piperidinylpropyl)-3-pyrrolidinyl)-4-oxapent-1-en-1-yl))- (CA INDEX NAME)
 Absolute stereochemistry.

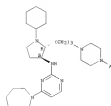


RI 91022-96-8 HCAPLUS
 CN 2-pyrrolidinone, N-((1R,3R)-1-cyclohexyl-3-(3-(4-cyclohexyl-1-piperidinylpropyl)-3-pyrrolidinyl)-4-oxapent-1-en-1-yl))- (CA INDEX NAME)
 Absolute stereochemistry.

114 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STM (Continued)

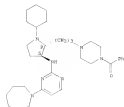


RI 91022-97-9 HCAPLUS
 CN 2-pyrrolidinone, N-((1R,3R)-1-cyclohexyl-3-(3-(4-oxapent-1-en-1-yl)-2-pyrrolidinyl)-4-oxapent-1-en-1-yl))- (CA INDEX NAME)
 Absolute stereochemistry.



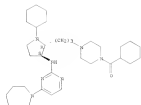
RI 91022-98-9 HCAPLUS
 CN 2-pyrrolidinone, N-((1R,3R)-1-cyclohexyl-3-(3-(4-oxapent-1-en-1-yl)-2-pyrrolidinyl)-4-oxapent-1-en-1-yl))- (CA INDEX NAME)
 Absolute stereochemistry.

114 ANSWER 2 OF 8 WORKSHEET COPYRIGHT 2008 ACS on STM (CONTINUED)



30 918622-88-1 MCAPLON
 35 Methanone, cyclohexyl[4-[3-[11N,16]-2-cyclohexyl-3-[4-(6-oxahydro-1H-
 2-oxepin-2-yl)-2-pyrrolidinyl]amino]-2-pyrrolidinyl]propyl]-2-pyrenyl]-
 (CA INDEX NAME)
 Absolute stereochemistry.

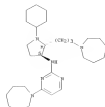
Absolute stereochemistry.



IN 924623-16-7 ECAPLEN
CS 2-Pyrimidinamine, 7-[(2E,3E)-1-cyclohexyl-2-[3-(hexahydro-1H-azepin-1-yl)propyl]-3-pyrrolidinyl]-4-(hexahydro-1H-azepin-1-yl)- [CA INDEX NAME]

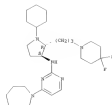
Absolute stereochemistry

136 AUTHOR 2 OF 6 WCPMUS COPYRIGHT 2009 ACS ON 3TH (066126660)



HN 918023-01-8 **HCAPLUS**
CH 2-Pyrindinamine, N-[(2R,3S)-1-cyclohexyl-2-[3-(4,4-difluoro-3-piperidinyl)propyl]-3-pyrrolidyl]-6-(hexahydro-1H-aspin-1-yl)- (CA
INDEX NAME
Absolute stereochemistry:

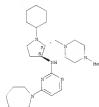
Absolute stereochemistry.



RX 918023-02-9 HCAPLUS
 2-Pyrinidinamine, N-[(2R,3S)-1-cyclohexyl-2-[(4-methyl-1-piperidinyl)methyl]-3-pyrrolidyl]-6-[(hexahydro-1H-aspin-1-yl)- (CA
 INDEX NAME)

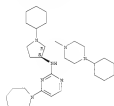
INDEX NAME:
Absolute stereochemistry.

314 ANSWER 2 OF 4 NCAPUS COPYRIGHT 2018 AOS on 5TH (Continued)



IN 91823-12-0 ECAP15
 CM 2-Pyrimidinamine, 9-[(2R,3R)-1-cyclohexyl-2-[(4-cyclohexyl-1-piperidinyl)methyl]-3-pyrrolidinyl]-4-(hexahydro-1H-azepin-1-yl)- (CA
 INDEX NAME)

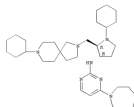
Analyte stereochemistry.



IN 994223-04-1 WCAPLOS
 SM 2-pyrimidinamine, N-((3*R*,3*B*)-3-cyclohexyl-3-((*B*-cyclohexyl-2,8-
 diazaspino[4,5-*g*]dec-2-yl)methyl)-3-pyrrolidinyl)-4-(hexahydro-3*H*-oxepin-3-
 yl)- (CA INDEX NAME)

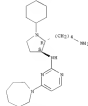
Analytical stereochemistry.

134 APPENDIX 2 OF 8 HCAP0005 COPYRIGHT 2000 ACS on STM (Continued)



NO	011023-00-2	HCAPLAW
CM	2-Pyridylidamine, N-((2R,3S)-2-(4-aminobutyl)-3-cyclohexyl-3-pyrrolidinyl)-4-(hexahydro-1H-azepin-1-yl)- (CA INDEX NAME)	

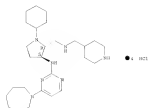
Absolute stereochemistry.



2-Pyridinylamine, N-[(2*F*,3*F*)-1-cyclohexyl-2-[[4-(piperidinomethyl)amino]methyl]-3-pyrrolidinyl]-4-(hexahydro-2*H*-azepin-3-yl)-, hydrochloride (2:4) (CA INDEX 1948)

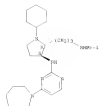
Absolute stereochemistry

114 ANSWER 1 OF 8 HQAPLUS COPYRIGHT 2008 ACS on STM (Continued)



918223-11-4 HQAPLUS
 CN 2-Pyrrolidinone, N-((12,36)-1-cyclohexyl-2-(3-((11-oxo-1,2,3,4-tetrahydronaphthalen-1-yl)amino)propyl)-4-benzophen-10-oxaprop-1-yl)-pyrazol-5-yl)-, HCl (CAS 9082 5086)

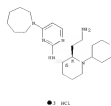
Absolute stereochemistry.



918223-11-4 HQAPLUS
 CN 2-Pyrrolidinone, N-((12,36)-1-cyclohexyl-2-(3-((11-oxo-1,2,3,4-tetrahydronaphthalen-1-yl)amino)propyl)-4-benzophen-10-oxaprop-1-yl)-pyrazol-5-yl)-, HCl (CAS 9082 5086)

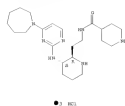
Relative stereochemistry.

114 ANSWER 2 OF 8 HQAPLUS COPYRIGHT 2008 ACS on STM (Continued)



918223-11-4 HQAPLUS
 CN 2-Pyrrolidinone, N-((12,36)-1-cyclohexyl-2-(3-((11-oxo-1,2,3,4-tetrahydronaphthalen-1-yl)amino)propyl)-4-benzophen-10-oxaprop-1-yl)-pyrazol-5-yl)-, HCl (CAS 9082 5086)

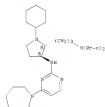
Relative stereochemistry.



918223-11-4 HQAPLUS
 CN 2-Pyrrolidinone, N-((12,36)-1-cyclohexyl-2-(3-((11-oxo-1,2,3,4-tetrahydronaphthalen-1-yl)amino)propyl)-4-benzophen-10-oxaprop-1-yl)-pyrazol-5-yl)-, HCl (CAS 9082 5086)

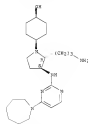
Relative stereochemistry.

114 ANSWER 1 OF 8 HQAPLUS COPYRIGHT 2008 ACS on STM (Continued)



918223-11-4 HQAPLUS
 CN 2-Pyrrolidinone, N-((12,36)-1-cyclohexyl-2-(3-((11-oxo-1,2,3,4-tetrahydronaphthalen-1-yl)amino)propyl)-4-benzophen-10-oxaprop-1-yl)-pyrazol-5-yl)-, HCl (CAS 9082 5086)

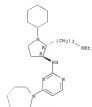
Relative stereochemistry.



918223-11-4 HQAPLUS
 CN 2-Pyrrolidinone, N-((12,36)-1-cyclohexyl-2-(3-((11-oxo-1,2,3,4-tetrahydronaphthalen-1-yl)amino)propyl)-4-benzophen-10-oxaprop-1-yl)-pyrazol-5-yl)-, HCl (CAS 9082 5086)

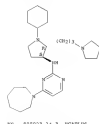
Relative stereochemistry.

114 ANSWER 2 OF 8 HQAPLUS COPYRIGHT 2008 ACS on STM (Continued)



918223-11-4 HQAPLUS
 CN 2-Pyrrolidinone, N-((12,36)-1-cyclohexyl-2-(3-((11-oxo-1,2,3,4-tetrahydronaphthalen-1-yl)amino)propyl)-4-benzophen-10-oxaprop-1-yl)-pyrazol-5-yl)-, HCl (CAS 9082 5086)

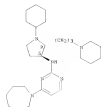
Relative stereochemistry.



918223-11-4 HQAPLUS
 CN 2-Pyrrolidinone, N-((12,36)-1-cyclohexyl-2-(3-((11-oxo-1,2,3,4-tetrahydronaphthalen-1-yl)amino)propyl)-4-benzophen-10-oxaprop-1-yl)-pyrazol-5-yl)-, HCl (CAS 9082 5086)

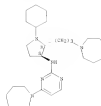
Relative stereochemistry.

114 ANSWER 2 OF 8 NOAPLES COPYRIGHT 2008 ACS on STM (Continued)



IN 948223-15-4 NOAPLES
 CN Betanerin, 4-((12R,3S)-2-(3-aminopropyl)-3-((4-oxocyclohexyl)methyl)-2-((4-oxocyclohexyl)methyl)-2-pyridinyl)-3-pyridinyl)-4-((4-oxocyclohexyl)methyl)-1H-imidazole-5-carboxamide

Relative stereochemistry.

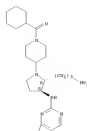


IN 948223-16-5 NOAPLES
 CN Betanerin, 4-((12R,3S)-2-(3-aminopropyl)-3-((4-oxocyclohexyl)methyl)-2-((4-oxocyclohexyl)methyl)-2-pyridinyl)-3-pyridinyl)-4-((4-oxocyclohexyl)methyl)-1H-imidazole-5-carboxamide

Relative stereochemistry.

114 ANSWER 2 OF 8 NOAPLES COPYRIGHT 2008 ACS on STM (Continued)

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IN 948223-17-6 NOAPLES
 CN Betanerin, 4-((12R,3S)-2-(3-aminopropyl)-3-((4-oxocyclohexyl)methyl)-2-((4-oxocyclohexyl)methyl)-2-pyridinyl)-3-pyridinyl)-4-((4-oxocyclohexyl)methyl)-1H-imidazole-5-carboxamide

Relative stereochemistry.

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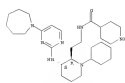
114 ANSWER 2 OF 8 NOAPLES COPYRIGHT 2008 ACS on STM (Continued)

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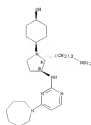
IN 948223-19-8 NOAPLES
 CN 4-piperidinocyclohexanone, N-(2-((12R,3S)-2-(3-aminopropyl)-3-((4-oxocyclohexyl)methyl)-2-((4-oxocyclohexyl)methyl)-2-pyridinyl)-3-pyridinyl)-4-((4-oxocyclohexyl)methyl)-1H-imidazole-5-carboxamide

Relative stereochemistry.



IN 948223-20-2 NOAPLES
 CN Cyclohexanone, 4-((12R,3S)-2-(3-aminopropyl)-3-((4-oxocyclohexyl)methyl)-2-((4-oxocyclohexyl)methyl)-2-pyridinyl)-3-pyridinyl)-4-((4-oxocyclohexyl)methyl)-1H-imidazole-5-carboxamide

Relative stereochemistry.

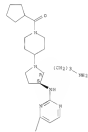


IN 948223-21-2 NOAPLES
 CN 4-piperidinocyclohexanone, N-(2-((12R,3S)-2-(3-aminopropyl)-3-((4-oxocyclohexyl)methyl)-2-((4-oxocyclohexyl)methyl)-2-pyridinyl)-3-pyridinyl)-4-((4-oxocyclohexyl)methyl)-1H-imidazole-5-carboxamide

Absolute stereochemistry.

114 ANSWER 2 OF 8 NOAPLES COPYRIGHT 2008 ACS on STM (Continued)

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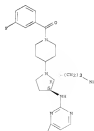


IN 948223-22-7 NOAPLES
 CN Betanerin, 4-((12R,3S)-2-(3-aminopropyl)-3-((4-oxocyclohexyl)methyl)-2-((4-oxocyclohexyl)methyl)-2-pyridinyl)-3-pyridinyl)-4-((4-oxocyclohexyl)methyl)-1H-imidazole-5-carboxamide

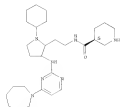
Relative stereochemistry.



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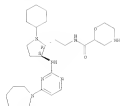


114 ANSWER 3 OF 8 NOCAPUS COPYRIGHT 2008 ACS on STM (Continued)



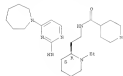
98
98023-32-3 NOCAPUS
CN 4-((2R,3R)-3-((4-(benzylideneamino)-5-oxo-5H-tetrahydro-3H-pyridin-2-yl)-1H-pyrazol-3-yl)-1H-pyrazol-5-yl)-2-piperidinylethyl)-, eni- (CA INDEX NAME)

Relative stereochemistry.



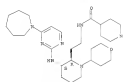
98
98023-33-4 NOCAPUS
CN 4-((2R,3R)-3-((4-(benzylideneamino)-5-oxo-5H-tetrahydro-3H-pyridin-2-yl)-1H-pyrazol-3-yl)-1H-pyrazol-5-yl)-2-piperidinylethyl)-, eni- (CA INDEX NAME)

Relative stereochemistry



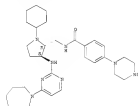
114 ANSWER 2 OF 8 NOCAPUS COPYRIGHT 2008 ACS on STM (Continued)
CN 4-((2R,3R)-3-((4-(benzylideneamino)-5-oxo-5H-tetrahydro-3H-pyridin-2-yl)-1H-pyrazol-3-yl)-1H-pyrazol-5-yl)-2-piperidinylethyl)-, eni- (CA INDEX NAME)

Relative stereochemistry.



98
98023-35-6 NOCAPUS
CN 4-((2R,3R)-3-((4-(benzylideneamino)-5-oxo-5H-tetrahydro-3H-pyridin-2-yl)-1H-pyrazol-3-yl)-1H-pyrazol-5-yl)-2-piperidinylethyl)-, eni- (CA INDEX NAME)

Absolute stereochemistry.



98
98023-36-7 NOCAPUS
CN 4-((2R,3R)-3-((4-(benzylideneamino)-5-oxo-5H-tetrahydro-3H-pyridin-2-yl)-1H-pyrazol-3-yl)-1H-pyrazol-5-yl)-2-piperidinylethyl)-, eni- (CA INDEX NAME)

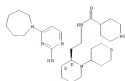
Relative stereochemistry.



114 ANSWER 3 OF 8 NOCAPUS COPYRIGHT 2008 ACS on STM (Continued)

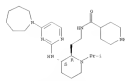
98
98023-34-5 NOCAPUS
CN 4-((2R,3R)-3-((4-(benzylideneamino)-5-oxo-5H-tetrahydro-3H-pyridin-2-yl)-1H-pyrazol-3-yl)-1H-pyrazol-5-yl)-2-piperidinylethyl)-, eni- (CA INDEX NAME)

Relative stereochemistry



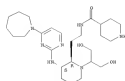
98
98023-35-6 NOCAPUS
CN 4-((2R,3R)-3-((4-(benzylideneamino)-5-oxo-5H-tetrahydro-3H-pyridin-2-yl)-1H-pyrazol-3-yl)-1H-pyrazol-5-yl)-2-piperidinylethyl)-, eni- (CA INDEX NAME)

Relative stereochemistry.



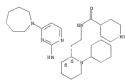
98
98023-36-7 NOCAPUS
CN 4-((2R,3R)-3-((4-(benzylideneamino)-5-oxo-5H-tetrahydro-3H-pyridin-2-yl)-1H-pyrazol-3-yl)-1H-pyrazol-5-yl)-2-piperidinylethyl)-, eni- (CA INDEX NAME)

Relative stereochemistry.



98 98023-37-8 NOCAPUS

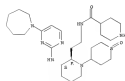
114 ANSWER 2 OF 8 NOCAPUS COPYRIGHT 2008 ACS on STM (Continued)



●: HCl

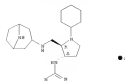
98
98023-38-9 NOCAPUS
CN 4-((2R,3R)-3-((4-(benzylideneamino)-5-oxo-5H-tetrahydro-3H-pyridin-2-yl)-1H-pyrazol-3-yl)-1H-pyrazol-5-yl)-2-piperidinylethyl)-, eni- (CA INDEX NAME)

Relative stereochemistry.



98
98023-39-0 NOCAPUS
CN 4-((2R,3R)-3-((4-(benzylideneamino)-5-oxo-5H-tetrahydro-3H-pyridin-2-yl)-1H-pyrazol-3-yl)-1H-pyrazol-5-yl)-2-piperidinylethyl)-, eni- (CA INDEX NAME)

Absolute stereochemistry.

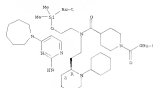


●: HCl

98
98023-41-0 98023-42-0
R1: HCl (PAC/ANT); RAC1 (PAC/ANT or INORGANIC)

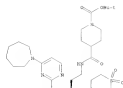
114 ANSWER 1 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)
 3-(8-oxo-1-(3-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino-2-phenylethyl)ethyl 2-((1-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino)acetate, rel- (CA INDEX NAME)

Relative stereochemistry.



114 ANSWER 2 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)
 3-(8-oxo-1-(3-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino-2-phenylethyl)ethyl 2-((1-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino)acetate, rel- (CA INDEX NAME)

Relative stereochemistry.

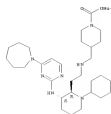


114 ANSWER 3 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)
 3-(8-oxo-1-(3-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino-2-phenylethyl)ethyl 2-((1-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino)acetate, rel- (CA INDEX NAME)

Relative stereochemistry.

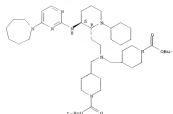


114 ANSWER 4 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)



114 ANSWER 5 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)
 3-(8-oxo-1-(3-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino-2-phenylethyl)ethyl 2-((1-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino)acetate, rel- (CA INDEX NAME)

Relative stereochemistry.

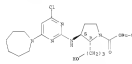


114 ANSWER 6 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)
 3-(8-oxo-1-(3-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino-2-phenylethyl)ethyl 2-((1-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino)acetate, rel- (CA INDEX NAME)

Absolute stereochemistry.

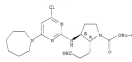


114 ANSWER 7 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)



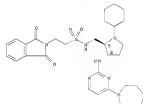
114 ANSWER 8 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)
 3-(8-oxo-1-(3-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino-2-phenylethyl)ethyl 2-((1-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino)acetate, rel- (CA INDEX NAME)

Absolute stereochemistry.



114 ANSWER 9 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)
 3-(8-oxo-1-(3-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino-2-phenylethyl)ethyl 2-((1-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino)acetate, rel- (CA INDEX NAME)

Absolute stereochemistry.

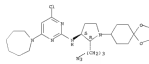


114 ANSWER 10 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)
 3-(8-oxo-1-(3-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino-2-phenylethyl)ethyl 2-((1-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino)acetate, rel- (CA INDEX NAME)

Absolute stereochemistry.

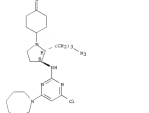


114 ANSWER 1 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)



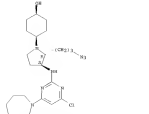
114 ANSWER 2 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)
 3-(8-oxo-1-(3-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino-2-phenylethyl)ethyl 2-((1-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino)acetate, rel- (CA INDEX NAME)

Absolute stereochemistry.



114 ANSWER 3 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)
 3-(8-oxo-1-(3-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino-2-phenylethyl)ethyl 2-((1-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino)acetate, rel- (CA INDEX NAME)

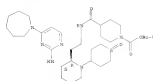
Absolute stereochemistry.



114 ANSWER 4 OF 8 NONPLUS COPYRIGHT 2008 ACS on STM (Continued)
 3-(8-oxo-1-(3-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino-2-phenylethyl)ethyl 2-((1-(3-oxo-1-phenyl-1H-imidazol-2-yl)ethyl)amino)acetate, rel- (CA INDEX NAME)

Absolute stereochemistry

Relative stereochemistry

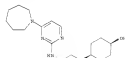


114 ANSWER 4 OF 8 INCORRECT. COPYRIGHT 2018 ACS, INC. STD

[illegible]

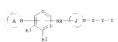
12 88-593-57-1
81- 557 (Biological study, unclassified); B103 (Biological study)

Absolute stereochemistry

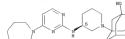


116 ANSWER 2 OF 6: HENRIUS, COPYRIGHT 2016 ACS, CC BY

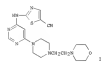
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02 200520-0000000002		20050105		
03 200520-0000000002				



KE #0134-42-5 NCPPL08
CM Triopolo[3.3.1.1^{1,2},7]decan-3-ol, 3-[(3R)-3-[[4-(hexahydro-1H-azepin-1-yl)-2-pyrimidinylamino]-1-piperidinyl]- (CA 13063 NAME)
 Absolute stereochemistry.



3-16. APPENDIX 5 OF 8. HEADLINE. COPYRIGHT 2008 AOL inc. 67M

[illegible]

2014年11月11日 星期一

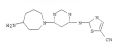
ONE OR MORE TAUTOGENIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE



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[preparation of pyrimidinylaminothiazoles as tyrosine kinase inhibitors]
88  434851-15-3  NCAPL08

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21/11/2008 Page 36

=> b uspatall
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CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATOLD' ENTERED AT 17:26:26 ON 20 NOV 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 17:26:26 ON 20 NOV 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

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AS	2001/1512/8	USPATFIELD	
TI	NATROGEN-CONTAINING HETEROCYCLIC COMPOUNDS AND MEDICAL USE THEREOF		
TR	Kobayashi, Harumi, Yoshino, Shiro, JAPAN		
	Kobuchi, Masaya, Matsuoka, JAPAN		
	Shibayama, Shiro, Tsubokawa-shi, JAPAN		
	Tsuta, Hiroaki, Tsubokawa-shi, JAPAN		
	Tsubokawa, Shiro, Tsubokawa-shi, JAPAN		
DA	ONO PHARMACEUTICAL CO., LTD., MITSUBISHI-GUMI, JAPAN, 631-8345 (non-6, copolymer)		
AC	25-031616/5/8	A3	20070731
AT	200506-00035/3/8	A3	15002159 (16)
	200506-290115/5/8	A3	00021259

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	20032P-009162196	20020110	
DT	Stability	20030606	
F2	APPLICATION		
ALBP	STOSHE-165503, 210		
	PERDSTVARGIA AVE. SW, WASHINGTON, DC, 20037-3213,		
	25		
CL09	Number of Claims: 3		
ECL	Exemptory Claim: 1		
CH01	No Drawings		
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3.27 ANSWER 1 OF 1 GSDATFELL on STD (Continued)



-> d bib abs hitrn fhitstr 118 tot

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ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

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L7      3 L6
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L9      50 L6 SAM SUB=L6
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